



AWS 5.8 GHz Sector Antenna

17 dBi - 22 dBi



- Weatherproof for outdoor use; compact and attractive for inbuilding
- High gain performance (17 dB - 22 dB)
- Available in 30°, 60°, 90° and 120° sector
- Adjustable tilt pole mount; optional wall mount adapter

Developers of new 5 GHz data systems will appreciate the AWS Series sector antennas. These antennas are excellent for deploying point to point backhaul, or for multipoint applications. This antenna design uses the latest PCB technology for high performance, lower cost and compact size. In addition to 5 GHz WiFi, these antennas can be deployed in smart highway or DSRC applications.

Models are available in several sector configurations with different gain factors. Model AWS22-5500-30 provides 22 dB gain with a 30 degree sector. This model is also an excellent choice for point to point, being only a fraction of the size of a parabolic. Model AWS19-5500-60 provides 19 dBi gain, and provides a 60 degree sector. Model AWS17-5500-90 provides 17 dBi gain, and a corresponding 90 degree sector. Model AWS16-5500-120 provides gain of 16 dBi, yet allows a generous 120 degree sector. Front to back ratio on all models is maintained at better than 25 dB. This allows true sectorization, or alternatively to isolate services to different areas.

These antennas are compact. Conventional pole mounting can be used, for quick and uncomplicated network deployment. Surface/wall mounting is also accommodat-

ed with an optional assembly. The adjustable tilt mounting bracket allows easy alignment. Pole mounted, the antenna can be adjusted 360 degree around the pole, as well as 60 degree vertical downtilt.

The antenna housing is a very attractive white ABS plastic. Compact in size, only 12.5" H x 3" W (32 cm x 7.6 cm), this antenna will be unobtrusive in any indoor or outdoor environment. These models are 100% weather-proof and can withstand the harshest conditions.

The antenna terminates with an integral Female N connector. AWS can provide jumper cables in a variety of cable/connector types. External lightning protection is recommended (to protect the radio) for outdoor mounting.

Antenna Model Numbers

| Model | Gain | Sector Size |
|----------------|--------|-------------------|
| AWS16-5500-120 | 16 dBi | 120 degree sector |
| AWS17-5500-90 | 17 dBi | 90 degree sector |
| AWS19-5500-60 | 19 dBi | 60 degree sector |
| AWS22-5500-30 | 22 dBi | 30 degree sector |

Models include tilt pole mount. Connector is N female. Jumper cables are also available, built to order.

Specifications

| | |
|------------------------------|-----------------------|
| Frequency: | 5.0 - 6.0 GHz |
| Gain: | See model table |
| Bandwidth@2:1 VSWR: | See above |
| Impedance: | 50 Ohm nominal |
| Max Power: | 25 watts |
| Beamwidth: | |
| AWS16-5500-120 | 120 degree Az, 10° EI |
| AWS17-5500-90 | 90 degree Az, 10° EI |
| AWS19-5500-60 | 60 degree Az, 10° EI |
| AWS22-5500-30 | 30 degree Az, 10° EI |
| Front to Back Ratio: | 25 dB or better |
| Operating Temp: | -40° to +85° C |
| Lightning Protection: | External recommended |

| | |
|---|---|
| Max Wind Velocity: | 125+ mph (200 kph) |
| Material: | White ABS radome |
| Dimensions: | 12.5" H x 3" W (all models) 32 cm x 7.6 cm |
| Weight: | 1 lbs (0.45 kg) |
| Mounting: | Powder coated aluminum, and anodized U Bolts |
| Tilt Adjustment: | Fixed positions and continuous with optional wall mount |
| Bracket: | 60 degree vertical adjustment |
| Connector: | Integral Female N |
| Custom jumper cables are available upon request | |